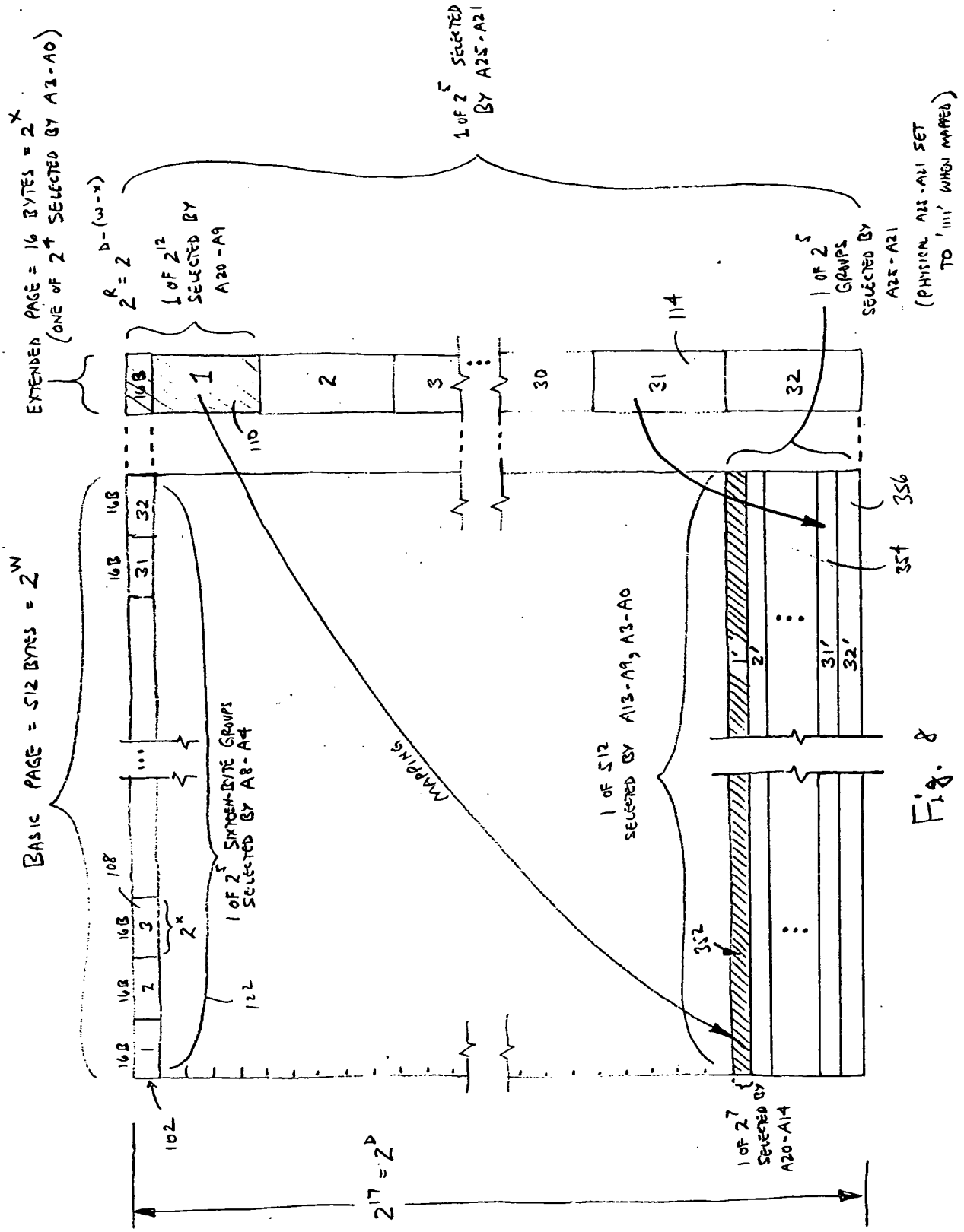
EXTENDED PAGE = 16 BYTES = 2^X
(ONE OF 2^4 SELECTED BY A3-A0)
$2^R = 2^{D-(W-X)}$
1 OF 2^{12} SELECTED BY A20-A9
1 OF 2^5 SELECTED BY A25-A21
(PHYSICAL A25-A21 SET TO '111' WHEN MAPPED)
BASIC PAGE = 512 BYTES = 2^W
1 OF 2^5 SIXTEEN-BYTE GROUPS SELECTED BY A8-A4
1 OF 512 SELECTED BY A13-A9, A3-A0
MAPPING
1 OF 2^5 GROUPS SELECTED BY A25-A21
1 OF 2^7 SELECTED BY A20-A14
$2^{17} = 2^D$
102
108
110
112
114
168
1
2
3
30
31
32
1'
2'
31'
32'
352
354
356

Fig. 8

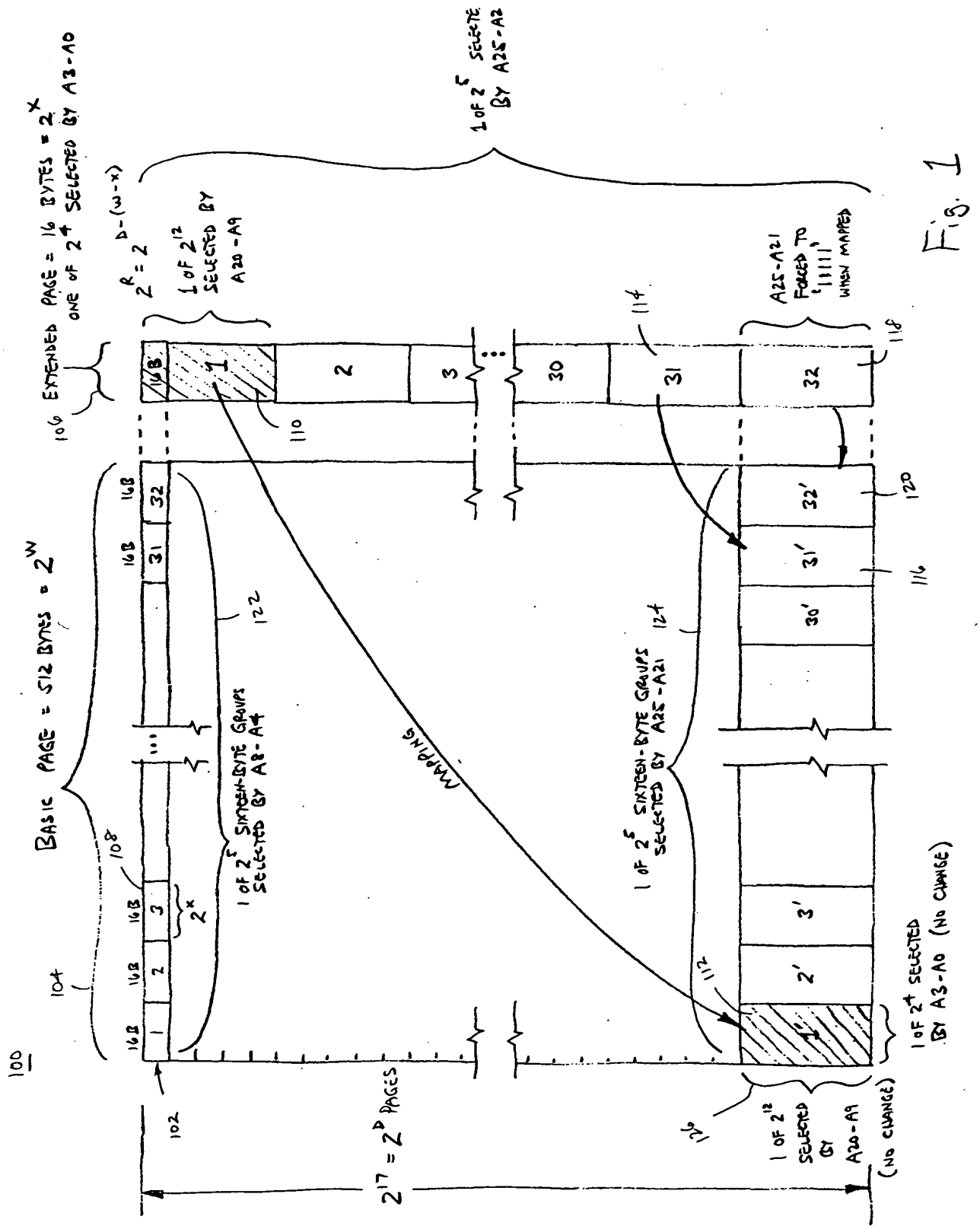
100
BASIC PAGE = 512 BYTES = 2^W
104
108
16B
1
2
3
2^X
1 OF 2^5 SIXTEEN-BYTE GROUPS SELECTED BY A8-A4
122
MAPPING
124
1 OF 2^5 SIXTEEN-BYTE GROUPS SELECTED BY A25-A21
112
102
$2^{17} = 2^D$ PAGES
126
1 OF 2^{12} SELECTED BY A20-A9 (NO CHANGE)
1 OF 2^4 SELECTED BY A3-A0 (NO CHANGE)
106 EXTENDED PAGE = 16 BYTES = 2^X ONE OF 2^4 SELECTED BY A3-A0
$R = 2^{D-(W-X)}$
1 OF 2^{12} SELECTED BY A20-A9
110
1 OF 2^5 SELECTED BY A25-A8
114
30
31
32
118
A25-A21 FORCED TO '11111' WHEN MAPPED
120
32'
31'
30'
116
3'
2'
1'

FIG. 1

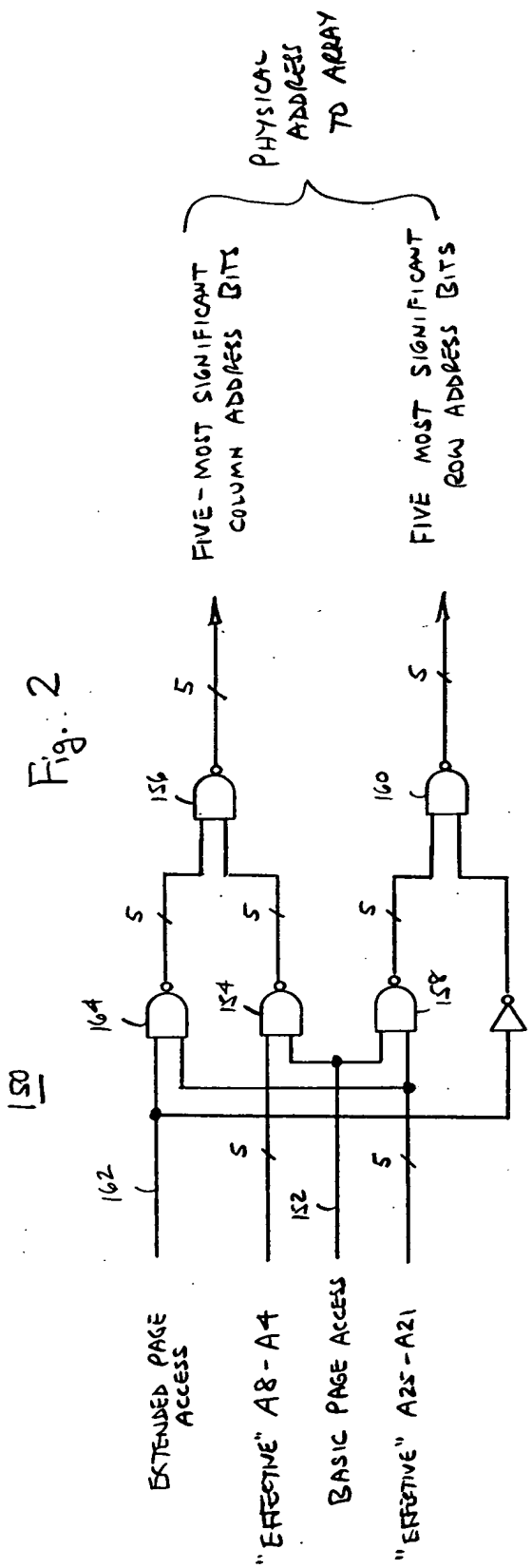
150
164
154
158
156
160
162
152
5
EXTENDED PAGE ACCESS
"EFFECTIVE" A8-A4
BASIC PAGE ACCESS
"EFFECTIVE" A25-A21
FIVE-MOST SIGNIFICANT COLUMN ADDRESS BITS
FIVE MOST SIGNIFICANT ROW ADDRESS BITS
PHYSICAL ADDRESS TO ARRAY

Fig. 2

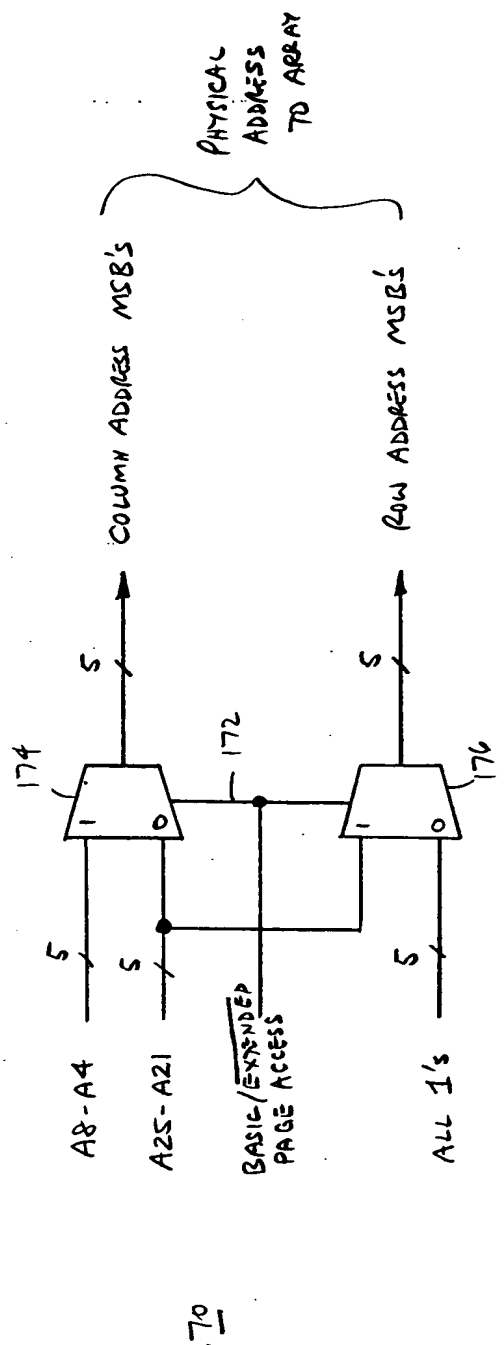
170
174
172
176
1
0
5
A8-A4
A25-A21
BASIC/EXTENDED PAGE ACCESS
ALL 1's
COLUMN ADDRESS MSB's
ROW ADDRESS MSB's
PHYSICAL ADDRESS TO ARRAY

Fig. 3

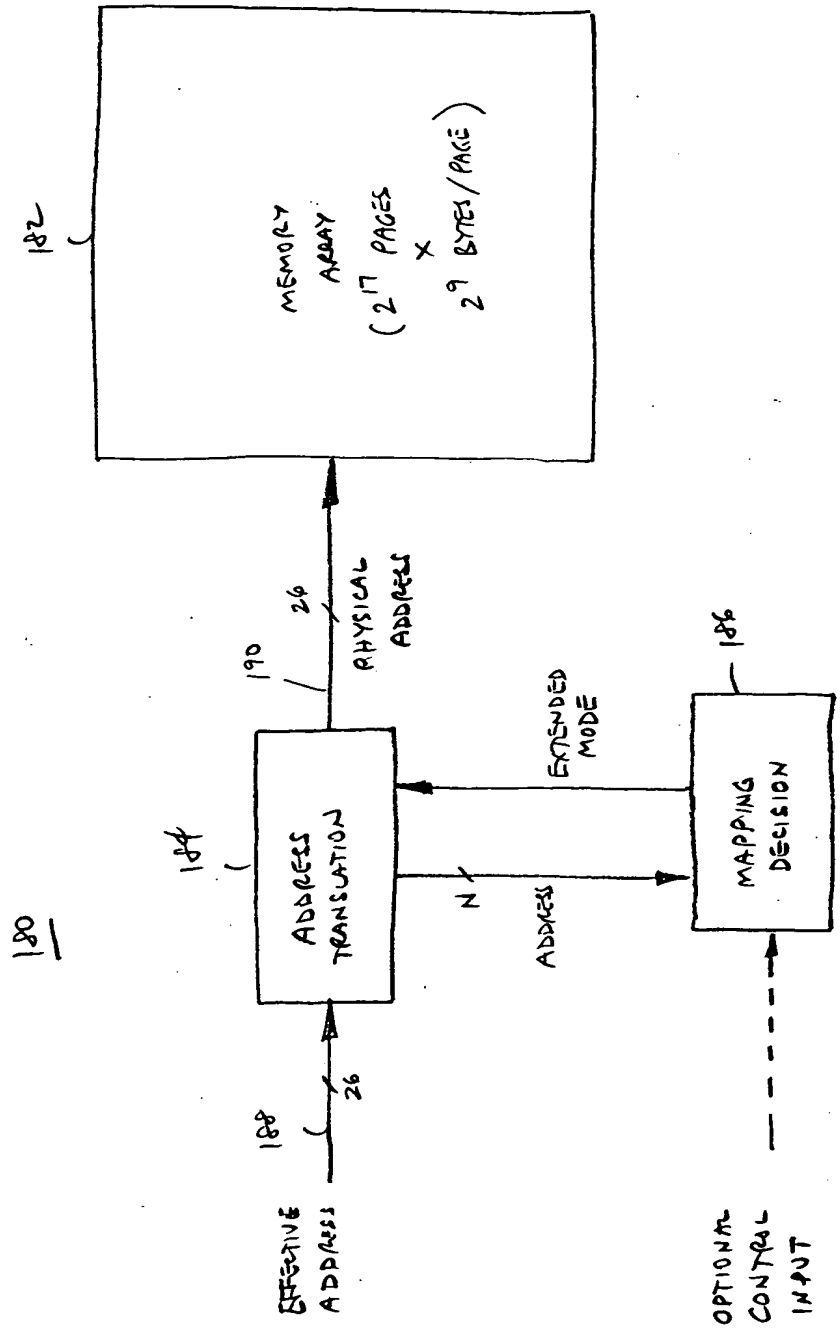
180
182
MEMORY ARRAY
(2^{17} PAGES × 2^9 BYTES/PAGE)
184
ADDRESS TRANSLATION
190
26
PHYSICAL ADDRESS
EXTENDED MODE
186
MAPPING DECISION
N
ADDRESS
188
26
EFFECTIVE ADDRESS
OPTIONAL CONTROL INPUT

Fig. 4

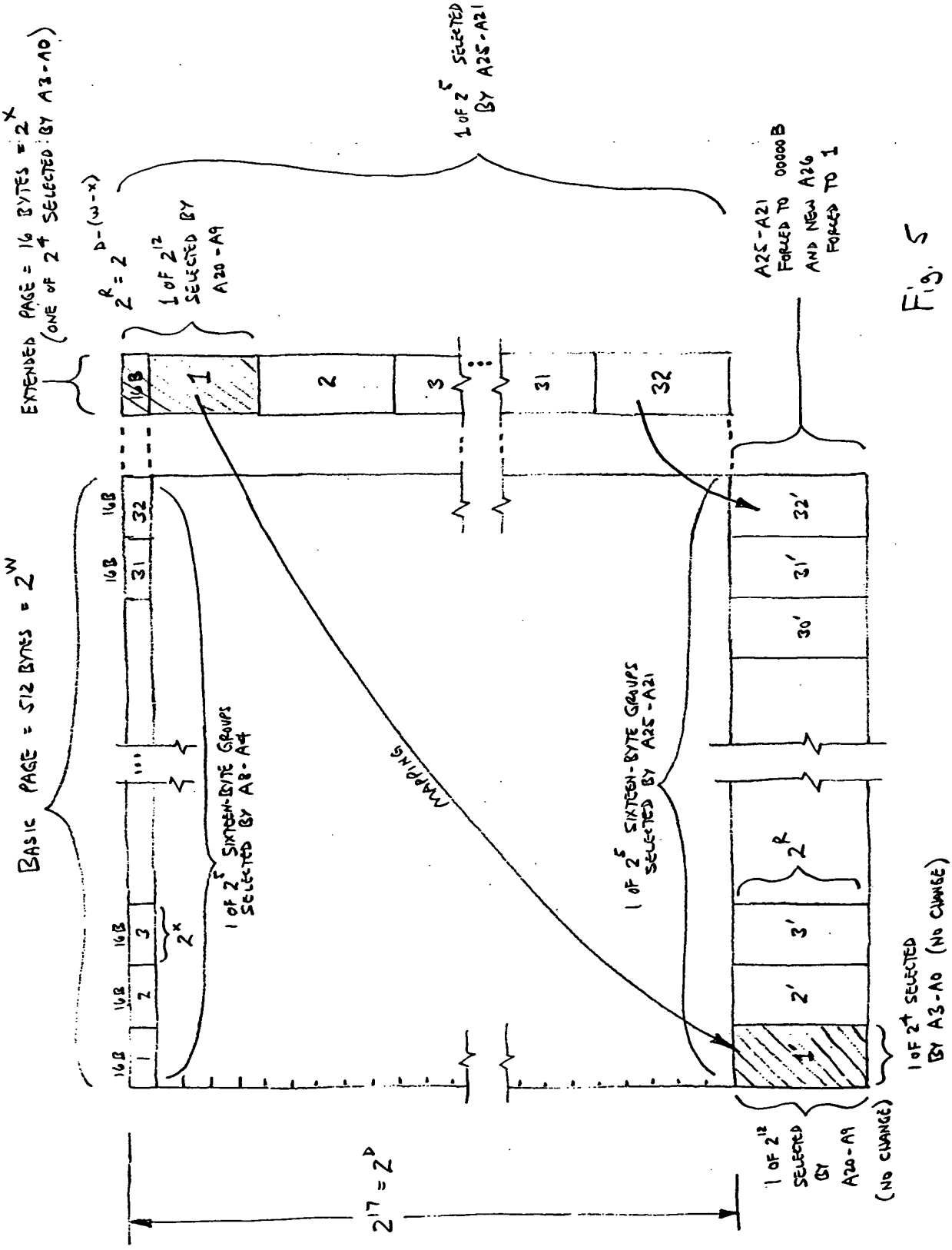

Fig. 5

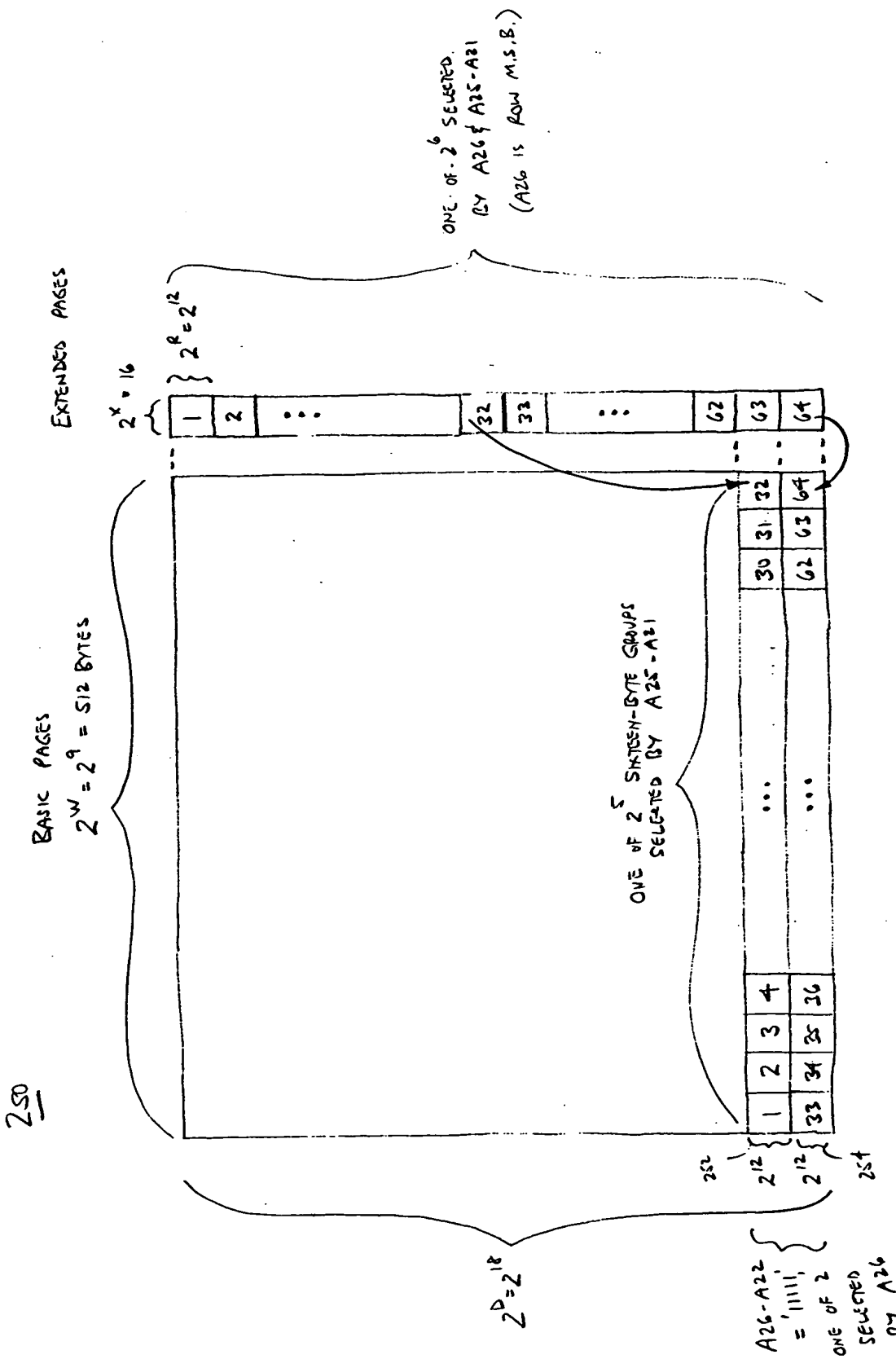
250
BASIC PAGES
$2^W = 2^9$ = 512 BYTES
EXTENDED PAGES
$2^X = 16$
$2^R = 2^{12}$
ONE OF 2^6 SELECTED BY A26 & A25-A21
(A26 IS ROW M.S.B.)
ONE OF 2^5 SIXTEEN-BYTE GROUPS SELECTED BY A25-A21
2^{32}
2^{12}
2^{12}
2^{32}
$2^D = 2^{18}$
A26-A22 = '11111', ONE OF 2 SELECTED BY A26
$R < D-(W-X)$ CASE

Fig. 6

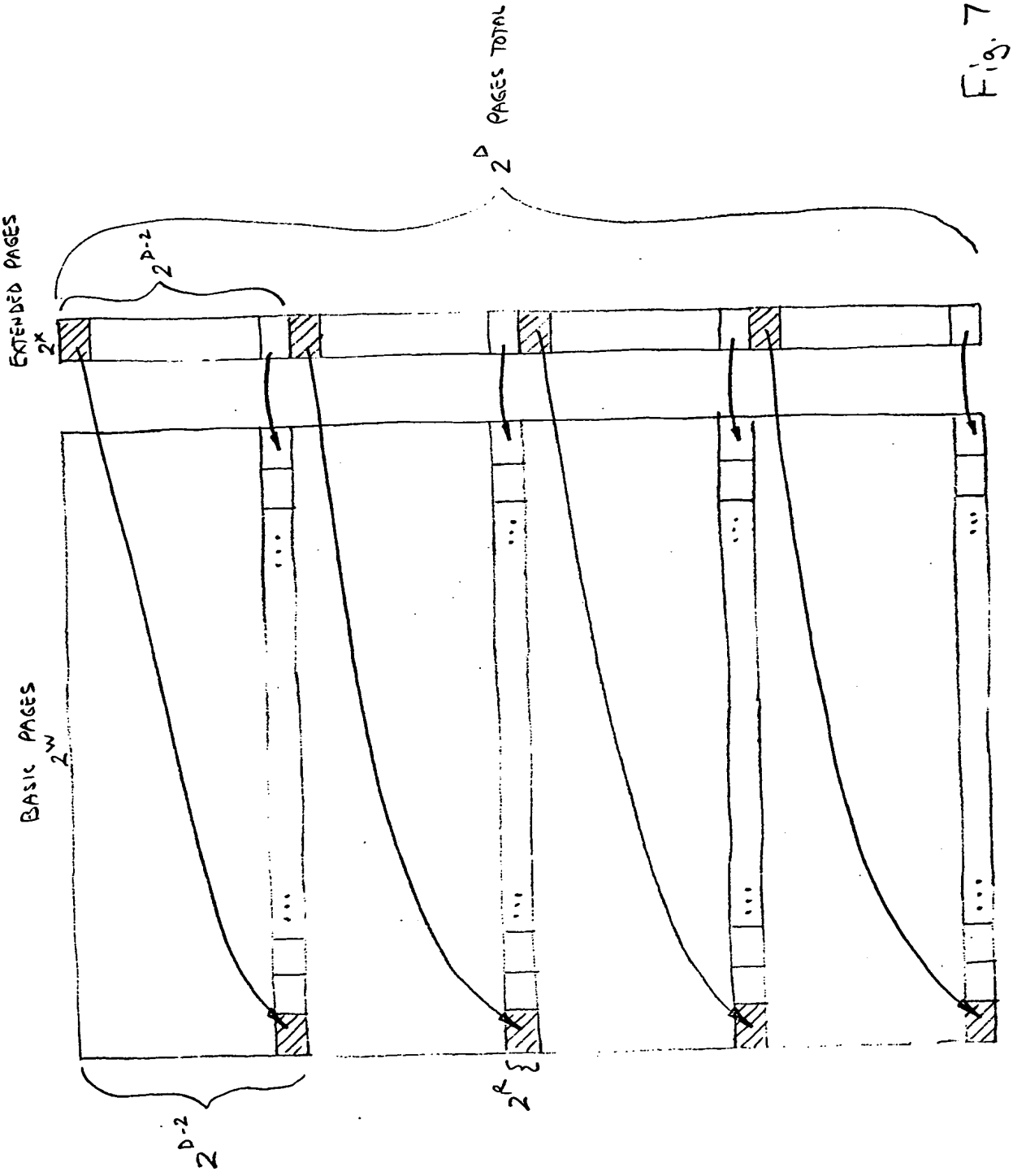

Fig. 7